APPENDIX B

FOR

UNITED STATES LETTERS PATENT

TITLE:

LINKS FOR CONFIGURING A VIRTUAL PRIVATE NETWORK

APPLICANT:

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16 PAGES

"EXPRESS MAIL"	Mailing Label Nu	mber <u>El</u>	182	57838
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Appendix 13

```
// Obtain all information from the Extranet Switch
// The result will then be "imported" into the OCM
// product.
// The "back" statements are used to symbolize the
// end of a section, it also makes it easier to import
Error=Error
// Obtain info ExtranetSwitch Basic Tab
"ExtranetDevice.IP ADDR.IP ADDR "
call omget using {"dns.systemipaddress"}
"\nExtranetDevice.HOSTNAME.HOSTNAME "
call omget using {"dns.systemname"}
"\nExtranetDevice.SWITCH_TYPE.SWITCH_TYPE "-
call omget using {"flash.ModelNumber"}
"\nExtranetDevice.CUR VERSION.CUR VERSION "
call omget using {"DirRestore.CurVersion"}
"\nExtranetDevice.DOMAIN NAME.DOMAIN NAME "
call omget using {"dns.domainname"}
"\nExtranetSwitch.PRIMARY_SERVER.PRIMARY_SERVER "
call omget using {"dns.primarydnsserver"}
"\nExtranetSwitch.SECONDARY_SERVER.SECONDARY_SERVER "
call omget using ("dns.secondarydnsserver")
"\nExtranetSwitch.TERTIARY SERVER.TERTIARY SERVER "
call omget using {"dns.tertiarydnsserver"}
// Obtain info for Shutdown Tab
"\nExtranetSwitch.DISABLE_NEW_LOGINS.DISABLE_NEW_LOGINS "
call omget using {"Security.NewLoginsEnabled"}
"\nExtranetSwitch.DISABLE RESTART LOGINS.DISABLE RESTART LOGINS "
call omget using {"Shutdown.DisableLoginsOnRestart"}
"\nExtranetSwitch.SYSTEM_SHUTDOWN.CHOICEBOX "
call omget using {"Shutdown.Mode"}
"\nExtranetSwitch.SYSTEM SHUTDOWN.TEXTBOX "
call omget using {"Shutdown.EventTimeDelay"}
"\nExtranetSwitch.POST_SHUTDOWN.POST_SHUTDOWN "
call omget using {"Shutdown.EventAction"}
"\nExtranetSwitch.REBOOT DRIVE.REBOOT DRIVE "
call omget using {"DiskRdn.BootDevice"}
// lets get some capacity stuff
"\nExtranetSwitch.TUN_USERS.NUM USERS "
call omget using {"dbgroups.group[ROOT::SUBTREE].persons.numentries"}
"\nExtranetSwitch.TUN_USERS.MAX_TUNNELS "
call omget using {"Flash.maximumusers"}
// Obtain info for ExtranetSwitch Admin tab
"\nExtranetSwitch.USER ID.USER ID "
call omget using {"flash.adminuid"}
"\nExtranetSwitch.PASSWORD.PASSWORD "
call omget using {"flash.adminpassword"}
"\nExtranetSwitch.IDLE TIMEOUT.IDLE TIMEOUT "
call omget using {"DbGroups.Group[ROOT].Accounts.Account[GENERAL,-
].AdminIdleTimeout"}
// Obtain info for ExtranetSwitch Service Tab
"\nExtranetSwitch.IPSEC.PUBLIC "
call omget using {"security.untrustedipsecenabled"}
```

```
"\nExtranetSwitch.IPSEC.PRIVATE "
call omget using("security.trustedipsecenabled")
"\nExtranetSwitch.PPTP.PUBLIC "
call omget using("security.untrustedpptpenabled")
"\nExtranetSwitch.PPTP.PRIVATE "
call omget using("security.trustedpptpenabled")
"\nExtranetSwitch.L2TP_L2F.PUBLIC "
call omget using("security.untrusted12fenabled")
"\nExtranetSwitch.L2TP L2F.PRIVATE "
call omget using {"security.trusted12fenabled"}
"\nExtranetSwitch.L2TP_L2F.PUBLIC "
call omget using{"security.untrustedl2tpenabled"}
"\nExtranetSwitch.L2TP_L2F.PRIVATE "
call omget using("security.trustedl2tpenabled")
"\nExtranetSwitch.HTTP_PRIVATE.HTTP PRIVATE "
call omget using{"security.trustedhttpenabled"}
"\nExtranetSwitch.SNMP_PRIVATE.SNMP PRIVATE "
call omget using{"security.trustedsnmpenabled"}
"\nExtranetSwitch.FTP PRIVATE.FTP PRIVATE "
call omget using { "security.trustedftpenabled" }
"\nExtranetSwitch.TELNET PRIVATE.TELNET PRIVATE "
call omget using{"security.trustedtelnetenabled"}
"\nExtranetSwitch.ALLOW_T2T.ALLOW_T2T "
call omget using{"security.allowtunneltotunnel"}
"\nExtranetSwitch.ALLOW EUTBO.ALLOW EUTBO "
call OmGet using {"Security.AllowClientToBranch"}
"\nExtranetSwitch.ALLOW BOTBO.ALLOW BOTBO "
call OmGet using {"Security.AllowBranchToBranch"}
// Obtain info ExtranetSwitch AutoBackup Tab
"\nExtranetSwitch.ABUG_ROW1.ABUG_ENABLED "
call omget using {"dirbackup.primaryzenabled"}
"\nExtranetSwitch.ABUG ROW1.ABUG HOST "
call omget using {"dirbackup.primaryhost"}
"\nExtranetSwitch.ABUG_ROW1.ABUG_PATH "
call omget using {"dirbackup.primarypath"}
"\nExtranetSwitch.ABUG ROW1.ABUG INTERVAL "
pint=call omgetnum using {"dirbackup.primaryinterval"}
pint=pint/60
"\nExtranetSwitch.ABUG_ROW1.ABUG_USERID "
call omget using {"dirbackup.primaryusername"}
"\nExtranetSwitch.ABUG_ROW1.ABUG_PASSWORD "
call omget using {"dirbackup.primarypassword"}
"\nExtranetSwitch.ABUG_ROW2.ABUG_ENABLED "
call omget using {"dirbackup.secondaryzenabled"}
"\nExtranetSwitch.ABUG_ROW2.ABUG_HOST "
call omget using {"dirbackup.secondaryhost"}~
"\nExtranetSwitch.ABUG_ROW2.ABUG_PATH "
call omget using {"dirbackup.secondarypath"}
"\nExtranetSwitch.ABUG_ROW2.ABUG_INTERVAL "
sint=call omgetnum using {"dirbackup.secondaryinterval"}
sint=sint/60
sint
"\nExtranetSwitch.ABUG ROW2.ABUG USERID "
call omget using {"dirbackup.secondaryusername"}
```

```
"\nExtranetSwitch.ABUG ROW2.ABUG PASSWORD "
 call omget using {"dirbackup.secondarypassword"}
 "\nExtranetSwitch.ABUG_ROW3.ABUG_ENABLED "
 call omget using {"dirbackup.tertiaryzenabled"}
 "\nExtranetSwitch.ABUG_ROW3.ABUG_HOST "
 call omget using {"dirbackup.tertiaryhost"}
 "\nExtranetSwitch.ABUG ROW3.ABUG PATH "
 call omget using {"dirbackup.tertiarypath"}
 "\nExtranetSwitch.ABUG_ROW3.ABUG_INTERVAL "
 tint=call omgetnum using {"dirbackup.tertiaryinterval"}
 tint=tint/60
 tint
 "\nExtranetSwitch.ABUG ROW3.ABUG USERID "
call omget using {"dirbackup.tertiarvusername"}
 "\nExtranetSwitch.ABUG_ROW3.ABUG_PASSWORD "
call omget using {"dirbackup.tertiarypassword"}
// obtain the boot configuration from switch
entry = call omfirst using {"namedconfig"}
cond = (entry != "")
"\nExtranetSwitch.BOOT SELECT.BOOT SELECT "
while cond using
  call omget using {"namedconfig["entry"].desc"}
  entry = call omnext using {"namedconfig("entry")"}
  cond = (entry != "")
// obtain performance data
fkey = call omfirst using {"DC.SummaryHistory"}
cond = (fkey != "")
while cond using
      svDateString=call omget using {"DC.SummaryHistory["fkey"].Timestamp"}
      svTotalKey=svDateString+"::TOTAL"
      "\nExtranetPerformance.TRENDING "
      svDateString .
      call omget using {"DC.SummaryHistory["svTotalKey"].TotalSessions"}
      call omget using {"DC.SummaryHistory("svTotalKey").AdminSessions"}
      call omget using {"DC.SummaryHistory("svTotalKey").PPTPSessions"}
      call omget using {"DC.SummaryHistory["svTotalKey"].IPSecSessions"}
      call omget using {"DC.SummaryHistory["svTotalKey"].L2FSessions"}
      call omget using {"DC.SummaryHistory["svTotalKey"].L2TPSessions"}
      "\nback"
       fkey = call omnext using("DC.SummaryHistory("fkey")")
       cond = (fkey != "")
```

```
// obtain the SNMP trap receivers
Error = ""
entry = ""
entry = call omfirst using {"traphost"}
if ( ( entry == "")&& ( Error == "Failure") ) then using
 Error = ""
if ( entry != "" ) then using
    cond = (entry != "")
    while cond using
      "\nBayP_ExtranetSNMP.TRAP TABLE "
      ""entry" "
      call omget using {"traphost["entry"].enabled"}
      call omget using {"traphost["entry"].community"}
      "\nback"
      entry = call omnext using {"traphost["entry"]"}
      cond = (entry != "")
// obtain the various snmp scripts
Error = ""
filename=call omfirst using {"script"}
if ((filename == "") && (Error == "Failure")) then using
   Error = ""
cond = (filename != "")
while cond using
  "\nBayP_ExtranetSNMP.SCRIPT TABLE "
  //call omget using {"script["filename"].description"}
  file = call omget using {"script("filename").description"}
  "'"file"'"
  call omget using {"script["filename"].interval"}
 call omget using {"script("filename").repeatcount"}
 "."filename""
  "\nback"
 filename = call omnext using {"script("filename"]"}
 cond = ( filename != "" )
"\nback"
// obtain the IPX parameters
"\nExtranetIPX.PUB_NET ADDR.PUB NET ADDR "
call omget using {"ipxintfomcls.ipxpublicaddress"}
"\nExtranetIPX.NEAR SERVER.NEAR SERVER "
```

```
nearserv = call omget using {"ipxintfomcls.defaultnearestserver"}
" '"nearserv" "
 "\nExtranetIPX.MAX SAP.MAX SAP "
call omget using {"ipxintfomcls.sapentries"}
// obtain the IPX interfaces
ifacekey = call omfirst using {"IpxIntfOmCls.IpxPrivateLANS"}
cond = (ifacekey != "")
while cond using
    //get values for row
    "\nExtranetIPX.Interface_Table "
    ifacekey
    call omget using {"IpxIntfOmCls.IpxPrivateLANS("ifacekey"].Slot"}
    call omget using {"IpxIntfOmCls.IpxPrivateLANS["ifacekey"].Port"}
    call omget using {"IpxIntfOmCls.IpxPrivateLANS["ifacekey"].IpxAddress"} " "
    call omget using {"IpxIntfOmCls.IpxPrivateLANS["ifacekey"].Encap"}
    call omget using {"IpxIntfOmCls.IpxPrivateLANS["ifacekey"].Enable"}
    "\nback"
    ifacekey = call omnext using
              {"ipxintfomcls.ipxprivatelans["ifacekey"]"}
    cond = (ifacekey != "")
    "\nback" -
// obtain RADIUS authentication
"\nBayP_RadAuth_Server.ENABLE RADIUS.ENABLE RADIUS "
call omget using {"DbRadiusAuthServers.Enabled"}
svAuthKey = call omfirst using {"DbRadiusAuthServers.RadiusAuthServer"}
//if no key, then need to create a server entry in the database
if (svAuthKey == "") then using
        Error = ""
      BaseDn = call omget using {"LdapConfig.BaseName"}
      svAuthKey="cn=radius1, ou=Radius, ou=AuthenticationServers,"+BaseDn
      call omcreate using {"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"]"}
if(svAuthKey != "") then using
//do gets from database
"\nBayP_RadAuth_Server.DELIMITER.REMOVE SUFFIX "
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].StripUidSuffix"}
"\nBayP_RadAuth_Server.DELIMITER.DELIMITER "
raddel=call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].uidSuffixDelimeter"}
" '"raddel"' "
"\nBayP_RadAuth_Server.ENABLE_AXENT.ENABLE_AXENT "
```

```
call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].AuthMethodAXENT"}
"\nBayP_RadAuth_Server.ENABLE_SECURID.ENABLE_SECURID "
 call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].AuthMethodSECURID" }
"\nBayP_RadAuth_Server.ENABLE_CHAP.ENABLE_CHAP "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].AuthMethodCHAP"}
"\nBayP_RadAuth_Server.ENABLE_MSCHAP.ENABLE_MSCHAP "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].AuthMethodMSCHAP"}
"\nBayP_RadAuth_Server.ENABLE PAP.ENABLE PAP "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].AuthMethodPAP"}
 //host enable
"\nBayP_RadAuth_Server.ENABLE_PRIMARY.ENABLE_PRIMARY "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].PrimaryHostEnabled"}
"\nBayP_RadAuth_Server.ENABLE_ALT1.ENABLE_ALT1 "
 call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate1HostEnabled "}
"\nBayP_RadAuth_Server.ENABLE ALT2.ENABLE ALT2 "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate2HostEnabled"}
 //host names
"\nBayP_RadAuth_Server.PRIM HOSTNAME.PRIM HOSTNAME "
call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].PrimaryHost"}
"\nBayP_RadAuth_Server.ALT1_HOSTNAME.ALT1_HOSTNAME "
 call omget using
{ "DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate1Host"}
"\nBayP_RadAuth_Server.ALT2_HOSTNAME.ALT2_HOSTNAME "
 call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate2Host"}
·//ports
"\nBayP_RadAuth_Server.PRIM_PORT.PRIM_PORT"
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].PrimaryHostPort"}
"\nBayP RadAuth_Server.ALT1 PORT.ALT1 PORT "
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate1HostPort"}
"\nBayP_RadAuth_Server.ALT2_PORT.ALT2_PORT "
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate2HostPort"}
//passwords
"\nBayP_RadAuth_Server.PRIM_SECRET.PRIM_SECRET "
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].PrimaryHostPassword"}
"\nBayP RadAuth_Server.ALT1 SECRET.ALT1 SECRET "
call omget using
{"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate1HostPassword"}
"\nBayP_RadAuth_Server.ALT2_SECRET.ALT2_SECRET "
```

```
call omget using
  {"DbRadiusAuthServers.RadiusAuthServer["svAuthKey"].Alternate2HostPassword"}
 // obtain RADIUS accounting
 "\nBayP_RadAcct_Server.ENABLE_INT_RADIUS.ENABLE_INT_RADIUS "
 call omget using {"DbRadiusAcctServers.Enabled"}
 accsrvkey = call omfirst using {"DbRadiusAcctServers.RadiusAcctServer"}
 if ( ( accsrvkey == "" ) && ( Error == "Failure" ) ) then using
       Error = ""
//if no key, then need to create entry
 if (accsrvkey == "") then using
       BaseDn = call omget using {"LdapConfig.BaseName"}
       if ( Error == "" ) then using
             accsrvkey="cn=acc1, ou=radius, ou=accounting servers, "+BaseDn
             call omcreate using
 { "DbRadiusAcctServers . RadiusAcctServer ["accsrvkey"] " }
             if ( Error == "" ) then using
                   accsrvkey=call omfirst using
 { "DbRadiusAcctServers.RadiusAcctServer" }
 //host enable
 if (accsrvkey != "") then using
     "\nBayP_RadAcct Server.ENABLE EXT RADIUS.ENABLE EXT RADIUS "
      call omget using
 { "DbRadiusAcctServers . RadiusAcctServer ["accsrvkey"] . HostEnabled" }
      //host names
     "\nBayP_RadAcct_Server.HOSTNAME.HOSTNAME "
     call omget using {"DbRadiusAcctServers.RadiusAcctServer["accsrvkey"].Host"}
     //ports
     "\nBayP_RadAcct_Server.PORT.PORT "
     call omget using
 { "DbRadiusAcctServers.RadiusAcctServer["accsrvkey"].HostPort"}
     "\nBayP_RadAcct_Server.SECRET.SECRET "
     call omGet using
 {"DbRadiusAcctServers.RadiusAcctServer["accsrvkey"].HostPassword"}
 "\nBayP_RadAcct_Server.UPDATE INTRVL.UPDATE INTRVL "
 call omget using {"DbGroups.Group[ROOT].Accounts.Account[GENERAL, -
 ].AcctUpdateFreq"}
```

```
// obtain info on which LDAP we are using
"\nBayP LDAP.INTERNAL EXTERNAL "
call omget using {"LdapConfig.useremote"}
// get info for internal LDAP
"\nBayP_IntLDAP_Server.IS RUNNING "
call omget using {"Slapd.IsRunning"}
keyLocalAuthServer = call omfirst using {"DbLocalAuthServers.LocalAuthServer"}
"\nBayP_IntLDAP_Server.SUFFIX ROW.REMOVE FROM UID "
ildapui=call omget using
{"DbLocalAuthServers.LocalAuthServer("keyLocalAuthServer"].stripUidSuffix"}
if (ildapui == "") then using
   "FALSE"
else using
  "'"ildapui"'"
"\nBayP IntLDAP Server.SUFFIX ROW.DELIMITER "
ildapdel=call omget using
{"DbLocalAuthServers.LocalAuthServer["keyLocalAuthServer"].UidSuffixDelimeter"}
" '"ildapdel"' "
// obtain info for external LDAP
"\nBayP ExtLDAP Server.SUFFIX ROW.REMOVE FROM UID "
eldapui=call omget using
{"DbLocalAuthServers.LocalAuthServer["keyLocalAuthServer"].stripUidSuffix"}
if (eldapui == "") then using
   "FALSE"
else using
  "'"eldapui"'"
"\nBayP ExtLDAP_Server.SUFFIX ROW.DELIMITER
ldapdel=call omget using
{"DbLocalAuthServers.LocalAuthServer("keyLocalAuthServer"].UidSuffixDelimeter"}
" '"ldapdel"' "
"\nBayP ExtLDAP_Server.BASE DN.BASE DN "
basedn = call omget using {"ldapconfig.remotebasename"}
"'"basedn"'"
"\nBayP_ExtLDAP_Server.MASTER.ELDAP HOSTNAME "
call omget using ("ldapprofileserver[0].host")
"\nBayP ExtLDAP_Server.MASTER.PORT "
call omget using {"ldapprofileserver[0].usessl"}
call omget using {"ldapprofileserver[0].port"}
call omget using {"ldapprofileserver[0].sslport"}
"\nBayP ExtLDAP Server.MASTER.BIND DN "
masterdn = call omget using {"ldapprofileserver[0].bindname"}
"'"masterdn"'"
"\nBayP ExtLDAP_Server.MASTER.BIND PASSWORD "
```

```
call omget using {"ldapprofileserver[0].bindpassword"}
  "\nBayP_ExtLDAP_Server.SLAVE1.ELDAP HOSTNAME "
 call omget using {"ldapprofileserver[1].host"}
 "\nBayP ExtLDAP_Server.SLAVE1.PORT "
 call omget using {"ldapprofileserver[1].usessl"}
 call omget using {"ldapprofileserver[1].port"}
 call omget using {"ldapprofileserver[1].sslport"}
 "\nBayP_ExtLDAP_Server.SLAVE1.BIND DN "
 slaveldn = call omget using {"ldapprofileserver[1].bindname"}
 "'"slaveldn"'"
 "\nBayP_ExtLDAP_Server.SLAVE1.BIND PASSWORD "
 call omget using {"ldapprofileserver[1].bindpassword"}
 "\nBayP_ExtLDAP_Server.SLAVE2.ELDAP_HOSTNAME "
 call omget using {"ldapprofileserver[2].host"}
 "\nBayP_ExtLDAP_Server.SLAVE2.PORT "
 call omget using {"ldapprofileserver[2].usessl"}
 call omget using {"ldapprofileserver[2].port"}
 call omget using {"ldapprofileserver[2].sslport"}
 "\nBayP_ExtLDAP_Server.SLAVE2.BIND DN "
 slave2dn = call omget using {"ldapprofileserver[2].bindname"}
 "'"slave2dn"'".
 "\nBayP_ExtLDAP_Server.SLAVE2.BIND PASSWORD "
 call omget using {"ldapprofileserver[2].bindpassword"}
__cipherkey=call omfirst using {"SslConfig.CipherSpec"}
 ccond = (cipherkey != NULL)
 while ccond using
         "\nBayP_ExtLDAP_Server.Encryption_Table "
       //get values for row
         call omget using {"SslConfig.CipherSpec["cipherkey"].Enabled"}
         name = call omget using {"SslConfig.CipherSpec["cipherkey"].Name"}
         "'"name"'"
         "\nback"
       cipherkey = call omnext using{"SslConfig.CipherSpec("cipherkey"]"}
         ccond = (cipherkey != "")
 "\nback"
 // Obtain User IP address pool information
 "\nBayP_UserIP_Server:ADDR ACQUIS.ADDR ACQUIS "
 call omget using {"AddressAcquisition.AcquisitionType"}
 "\nBayP UserIP Server.CACHE.SIZE "
 call omget using {"AddressAcquisition.DHCPCacheSize"}
 "\nBayP_UserIP_Server.RELEASE.IMMEDIATE "
 call omget using {"AddressAcquisition.DHCPReleaseImmediately"}
 "\nBayP UserIP_Server.DHCP.TYPE "
 call omget using {"AddressAcquisition.DHCPType"}
 "\nBayP_UserIP_Server.PRIMARY_SERVER "
 call omget using{"DhcpServer[0].ServerAddress"}
```

```
"\nBayP_UserIP_Server.SECONDARY SERVER "
 call omget using("DhcpServer[1].ServerAddress")
 "\nBayP_UserIP_Server.TERTIRARY SERVER "
 call omget using{"DhcpServer[2].ServerAddress"}
 AddrKey = call omfirst using {"IpAddrPool"}
 ccond = (AddrKey != "")
 while ccond using
  "\nBayP_UserIP_Server.ADDR TABLE "
   call omget using ("IpAddrPool("AddrKey").startaddr")
   call omget using {"IpAddrPool["AddrKey"].endaddr"}
   call omget using {"IpAddrPool["AddrKey"].numberofaddrs"}
   11 11
   AddrKey
   "\nback"
   AddrKey = call omnext using {"IpAddrPool["AddrKey"]"}
   ccond = (AddrKey != "")
   "\nback"
 // obtain ethernet interface information
 Entry = call omfirst using {"Interface"} '
 if ( (Entry == "" ) && (Error == "Failure" ) ) then using
 Error = ""
- CondEntry = (Entry != "")
 while CondEntry using
     lookType = call omget using {"Interface["Entry"].Type"}
     // only do for lan interfaces
     if (lookType == 2) then using
     "\nExtranetInterface.LAN Interface "
     call omget using {"Interface("Entry").slot"}
     call omget using {"Interface["Entry"].Interface"}
     call omget using {"Interface["Entry"].DefaultGateway"}
     lookLoc = call omget using {"Interface["Entry"].DevLoc"}
     " "lookLoc" "
     call omget using {"Interface["Entry"].Public"}
     call omget using {"Interface["Entry"].Enabled"}
     desc = call omget using {"Interface["Entry"].Desc"}
     if ( desc != "" ) then using
       "" desc" "
```

```
else using
    ipIntf = call omfirst using {"IpIntf"}
    if ( ( ipIntf == "" ) && ( Error == "Failure" ) ) then using
       Error = ""
    CondipIntf = (ipIntf != "")
    while CondipIntf using
      ipDevLoc = call omget using {"ipIntf("ipIntf").DevLoc"}
      if ( ipDevLoc == lookLoc ) then using
          isSystem = call omget using {"ipIntf("ipIntf").IsSystemIpAddr"}
          // only do for the non-system interfaces
         if ( isSystem == "NO" ) then using
                 Keep count of the number of addresses for this card
          call omget using {"ipIntf("ipIntf").IpAddr"}
          call omget using {"IpIntf("ipIntf").Subnet"}
      ipIntf = call omnext using {"IpIntf("ipIntf")"}
      CondipIntf = (ipIntf != "")
    Entry = call omnext using ("Interface("Entry")")
    CondEntry = (Entry != "" )
// obtain WAN information
Entry = call omfirst using {"Interface"}
if ( (Entry == "" ) && (Error == "Failure" ) ) then using
Error = ""
CondEntry = (Entry != "")
while CondEntry using
    lookType = call omget using {"Interface["Entry"].Type"}
    lookDESC = call omget using {"Interface["Entry"].Hardware"}
    // only do for wan interfaces
    if (lookType == 1) then using
```

```
if (lookDESC != "empty") then using
"\nExtranetInterface.WAN Interface "
call omget using {"Interface["Entry"].slot"}
call omget using {"Interface["Entry"].Interface"}
lookLoc = call omget using {"Interface["Entry"].DevLoc"}
call omget using {"Interface["Entry"].Enabled"}
desc = call omget using {"PppIntf("lookLoc").description"}
if ( desc != "" ) then using
  "'"desc"'"
else using
locip=call omget using {"PppIntf["lookLoc"].localipaddress"}
" '"locip" "
ipcp=call omget using {"PppIntf["lookLoc"].ipcpacceptremote"}
if (ipcp == "") then using
    "FALSE "
else using
    "'"ipcp"' "
peerip=call omget using {"PppIntf["lookLoc"].peeripaddress"}
" '"peerip"' ".
nopap=call omget using {"PppIntf["lookLoc"].NoPapNeg"}
if (nopap == "") then using
   "FALSE "
else using
   "'"nopap"' "
nochap=call omget using {"PppIntf["lookLoc"].NoChapNeg"}
if (nochap == "") then using...
   "FALSE "
else using
   "'"nochap"' "
name = call omget using {"PppIntf["lookLoc"].LocalPapName"}
"'"name"'"
passwd = call omget using {"PppIntf("lookLoc").LocalPapPasswd"}
" '"passwd"' "
```

```
if (noacc == "") then using
       "FALSE "
    else using
       "'"noacc"' "
    nopc=call omget using {"PppIntf["lookLoc"].NoPCNeq"}.
    if (nopc == "") then using
       "FALSE "
    else using
       "'"nopc"' "
    lcpfail=call omget using {"PppIntf["lookLoc"].LCPEchoFailure"}
    " '"lcpfail"' "
    lcpint=call omget using {"PppIntf("lookLoc").LCPEchoInterval"}
    " '"lcpint"' "
    novj=call omget using {"PppIntf("lookLoc").NovJNeg"}
    if (novj == "") then using
       "FALSE "
    else using
       "'"novj"' "
    novjc=call omget using {"PppIntf["lookLoc"].NoVJCCompNeq"}-
    if (novjc == "") then using
       "FALSE "
    else using
       "'"novjc"' "
    vjslots=call omget using {"PppIntf["lookLoc"].VJMaxSlots"}
    " '"vjslots"' "
    Entry = call omnext using {"Interface("Entry")"}
    CondEntry = (Entry != "" )
// obtain PPTP information
"\nBayP Tunnel.PPTP "
call omget using {"DbGroups.Group[ROOT].Accounts.Account[PPTP,-
].AuthServerRef2Type"}
call omget using {"DbGroups:Group[ROOT].Accounts.Account[PPTP,-
].AuthServerRef3Type"}
"\nBayP Tunnel.PPTP_MSCHAP_ROW.NOT ENCRYPT "
call omget using {"Dbgroups.Group[root].Accounts.Account[PPTP,-
].DefaultEncryptionNone"}
```

noacc=call omget using {"PppIntf["lookLoc"].NoAccNeg"}

```
"\nBayP_Tunnel.PPTP_MSCHAP_ROW.MSCHAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[PPTP, -
].DefaultEncryptionRC4_128"}
"\nBayP Tunnel.PPTP MSCHAP ROW.RC440 "
call omget using {"Dbgroups.Group[root].Accounts.Account[PPTP,-
].DefaultEncryptionRC4 40"}
"\nBayP_Tunnel.PPTP_CHAP.PPTP CHAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[PPTP,-
].DefaultAuthMethodChap"}
"\nBayP_Tunnel.PPTP_PAP.PPTP PAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[PPTP,-
].DefaultAuthMethodPAP"}
// obtain L2TP information"
//"\nBayP_Tunnel.L2TP " -
//call omget using {"DbGroups.Group[ROOT].Accounts.Account[L2TP,-
].AuthServerRef2Type"}
//" "
//call omget using {"DbGroups.Group[ROOT].Accounts.Account[L2TP,-
1.AuthServerRef3Type"}
"\nBayP_Tunnel.L2TP_MSCHAP_ROW.NOT_ENCRYPT "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2TP,-
].DefaultEncryptionNone"}
"\nBayP_Tunnel.L2TP_MSCHAP_ROW.MSCHAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2TP,-
].DefaultEncryptionRC4 128"}
"\nBayP Tunnel.L2TP MSCHAP ROW.RC440 "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2TP,-
].DefaultEncryptionRC4 40"}
"\nBayP_Tunnel.L2TP_CHAP.L2TP_CHAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2TP,-
].DefaultAuthMethodChap"}
"\nBayP Tunnel.L2TP PAP.L2TP PAP "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2TP,-
].DefaultAuthMethodPAP"}
//"\nback"
// obtain L2F
"\nBayP Tunnel.L2F "
call omget using {"DbGroups.Group[ROOT].Accounts.Account[L2F, -
].AuthServerRef2Type"} " "
call omget using {"DbGroups.Group[ROOT].Accounts.Account[L2F,-
].AuthServerRef3Type"}
"\nBayP Tunnel.CHAP_ENABLED.CHAP ENABLED "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2F,-
].DefaultAuthMethodChap"}
"\nBayP Tunnel.PAP ENABLED.PAP ENABLED "
call omget using {"Dbgroups.Group[root].Accounts.Account[L2F,-
].DefaultAuthMethodPap"}
"\nback"
// obtain IPSec information
 realIPsecKey = ""
 groupKey = call omfirst using {"DbGroups.Group"}
  if ( ( groupKey == "" ) && ( Error == "Failure" ) ) then using
```

```
// can safely ignore this error
    Error = ""
  if ( groupKey != "" ) then using
    accountKey = call omfirst using
{"DbGroups.Group["groupKey"].Accounts.Account"}
    if ( ( accountKey == "" ) && ( Error == "Failure" ) ) then using
      // can safely ignore this error .
      Error = ""
    accountCondition = (accountKey != "") && ( realIPsecKey == "" )
  . while accountCondition using
      accountType = call omget using
{"DbGroups.Group["groupKey"].Accounts.Account["accountKey"].TunnelType"}
      if ( accountType == "IPsec" ) then using
        realIPsecKey = accountKey
      accountKey = call omnext using
{ "DbGroups.Group [ "groupKey"] .Accounts.Account [ "accountKey"] " }
      accountCondition = ((accountKey != "") && ( realIPsecKey == "" ))
      } // while there is a subaccount
         // End - groupkey != NULL
"\nBayP_Tunnels.IPSEC "
refl=call omget using
{"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].AuthServerRef2Type" }
"'"refl"' "
"\nBayP_TunnelsIP.AUTH_USER.AUTH_USER "
call omget using
{ "DbGroups.Group [ROOT] .Accounts.Account ["realIPsecKey"] .DefaultAuthMethodSHARED_
SECRET" }
"\nBayP TunnelsIP.AUTH RSA.AUTH RSA "
call omget using
{"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].DefaultAuthMethodCERTIFI
CATE RSA" }
"\nBayP TunnelsIP.RADAUTH AXENT.RADAUTH AXENT "
call omget using
{"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].DefaultAuthMethodAXENT"
"\nBayP TunnelsIP.RADAUTH SECURITY.RADAUTH SECURITY "
call omget using
{"DbGroups.Group [ROOT].Accounts.Account ["realIPsecKey"].DefaultAuthMethodSECURID
"\nBayP_TunnelsIP.RADAUTH_GROUP.RADAUTH GROUP "
call omget using
{"DbGroups.Group [ROOT].Accounts.Account["realIPsecKey"].DefaultAuthMethodPAP" }
"\nBayP TunnelsIP.ENCRYP TRIPLE.ENCRYP TRIPLE "
call omget using
{"DbGroups.Group [ROOT].Accounts.Account["realIPsecKey"].DefaultEncryption3DES_MD
```

```
"\nBayP_TunnelsIP.ENCRYP ESP56.ENCRYP ESP56 "
call omget using
{"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].DefaultEncryptionDES_MD5
"\nBayP TunnelsIP.ENCRYP ESP40.ENCRYP ESP40 "
call omget using
"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].DefaultEncryptionDES_40"
"\nBayP_TunnelsIP.ENCRYP_AHSHA.ENCRYP_AHSHA "
call omget using
{ "DbGroups.Group [ROOT] .Accounts.Account ["realIPsecKey"] .DefaultEncryptionHMAC SH
A" }
"\nBayP_TunnelsIP.ENCRYP AHMD5.ENCRYP AHMD5 "
call omget using
{"DbGroups.Group[ROOT].Accounts.Account["realIPsecKey"].DefaultEncryptionHMAC_MD
5" }
"\nBayP Tunnels.LB ENABLED.LB ENABLED "
call omget using {"Loadbalance.NodelEnabled"}
"\nBayP Tunnels.LB HOST.LB HOST "
call omget using {"Loadbalance.Node1"}
"\nBayP_Tunnels.FAILOVER1_ENABLED.FAILOVER1 ENABLED "
call omget using {"Failover.Nodelenabled"}
"\nBayP_Tunnels.FAILOVER1_IPADDR.FAILOVER1_IPADDR "
call omget using {"Failover.Nodel"}
"\nBayP Tunnels.FAILOVER2 ENABLED.FAILOVER2 ENABLED "
call omget using {"Failover.Node2enabled"}
"\nBayP_Tunnels.FAILOVER2_IPADDR.FAILOVER2_IPADDR "
call omget using {"Failover.Node2"}
"\nBayP_Tunnels.FAILOVER3_ENABLED.FAILOVER3_ENABLED "
call omget using ("Failover.Node3enabled")
"\nBayP Tunnels.FAILOVER3 IPADDR.FAILOVER3 IPADDR "
call omget using {"Failover.Node3"}
"\nback"
```